

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/570,909
Source: IFWP
Date Processed by STIC: 3-23-06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 03/23/2006

PATENT APPLICATION: US/10/570,909

TIME: 13:32:52

Input Set : E:\Sequence Listing (14129-00001-US).txt

Output Set: N:\CRF4\03232006\J570909.raw

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3 <110> APPLICANT: Hopf, Carsten
5 <120> TITLE OF INVENTION: Treatment of Neurodegenerative Diseases
7 <130> FILE REFERENCE: 14129-00001-US
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/570,909
C--> 9 <141> CURRENT FILING DATE: 2006-03-03
9 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/009771
10 <151> PRIOR FILING DATE: 2004-09-02
12 <150> PRIOR APPLICATION NUMBER: EP 03019642.2
13 <151> PRIOR FILING DATE: 2003-09-05
15 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/013980
16 <151> PRIOR FILING DATE: 2003-12-10
18 <150> PRIOR APPLICATION NUMBER: EP 04001895.4
19 <151> PRIOR FILING DATE: 2004-01-29
21 <150> PRIOR APPLICATION NUMBER: EP 04001894.7
22 <151> PRIOR FILING DATE: 2004-01-29
24 <150> PRIOR APPLICATION NUMBER: EP 04007447.8
25 <151> PRIOR FILING DATE: 2004-03-26
27 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/004891
28 <151> PRIOR FILING DATE: 2004-05-07
30 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/004889
31 <151> PRIOR FILING DATE: 2004-05-07
33 <150> PRIOR APPLICATION NUMBER: EP 04018874.0
34 <151> PRIOR FILING DATE: 2004-08-09
36 <160> NUMBER OF SEQ ID NOS: 125
38 <170> SOFTWARE: PatentIn version 3.3
40 <210> SEQ ID NO: 1
42 <211> LENGTH: 265
44 <212> TYPE: PRT
46 <213> ORGANISM: Homo sapiens
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55 Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val
56 20 25 30
59 Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Leu
60 35 40 45
63 Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp
64 50 55 60
67 Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val
68 65 70 75 80
71 Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
72 85 90 95
75 Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile

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79 Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile
80          115          120          125
83 Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro
84          130          135          140
87 Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser
88 145          150          155          160
91 Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val
92          165          170          175
95 Val Phe Phe Asp Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu
96          180          185          190
99 Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro
100          195          200          205
103 Trp Tyr Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met
104          210          215          220
107 Gly Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
108 225          230          235          240
111 Arg Ser Leu Leu Cys Arg Arg Gln Glu Asp Ser Arg Val Met Val Tyr
112          245          250          255
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116          260          265
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123 <212> TYPE: PRT
125 <213> ORGANISM: Homo sapiens
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135 Gln Thr Tyr Thr Tyr Asp Ser Gly Ile His Ser Gly Ala Asn Thr Cys
136          20          25          30
139 Val Pro Ser Val Ser Ser Lys Gly Ile Met Glu Glu Asp Glu Ala Cys
140          35          40          45
143 Gly Arg Gln Tyr Thr Leu Lys Lys Thr Thr Thr Tyr Thr Gln Gly Val
144          50          55          60
147 Pro Pro Ser Gln Gly Asp Leu Glu Tyr Gln Met Ser Thr Thr Ala Arg
148 65          70          75          80
151 Ala Lys Arg Val Arg Glu Ala Met Cys Pro Gly Val Ser Gly Glu Gly
152          85          90          95
155 Gln Leu Ala Leu Leu Ala Thr Gln Val Glu Gly Gln Ala Thr Asn Leu
156          100          105          110
159 Gln Arg Leu Ala Glu Pro Ser Gln Leu Leu Lys Ser Ala Ile Val His
160          115          120          125
163 Leu Ile Asn Tyr Gln Asp Asp Ala Glu Leu Val Thr Arg Ala Leu Pro
164          130          135          140
167 Glu Leu Thr Lys Leu Leu Asn Asp Glu Asp Pro Val Val Val Thr Lys
168 145          150          155          160
171 Ala Ala Met Ile Val Asn Gln Leu Ser Lys Lys Glu Ala Ser Arg Arg
172          165          170          175
175 Ala Leu Met Gly Ser Pro Gln Leu Val Ala Ala Val Val Arg Thr Met

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176          180          185          190
179 Gln Asn Thr Ser Asp Leu Asp Thr Ala Arg Cys Thr Thr Ser Ile Leu
180          195          200          205
183 His Asn Leu Ser His His Arg Glu Gly Leu Leu Ala Ile Phe Lys Ser
184          210          215          220
187 Gly Gly Ile Pro Ala Leu Val Arg Met Leu Ser Ser Pro Val Glu Ser
188 225          230          235          240
191 Val Leu Phe Tyr Ala Ile Thr Thr Leu His Asn Leu Leu Leu Tyr Gln
192          245          250          255
195 Glu Gly Ala Lys Met Ala Cys Ala Gly Arg Arg Ala Gln Lys Met Val
196          260          265          270
199 Pro Leu Leu Asn Lys Asn Asn Pro Lys Phe Leu Ala Ile Thr Thr Asp
200          275          280          285
203 Cys Leu Gln Leu Leu Ala Tyr Gly Asn Gln Glu Ser Lys Leu Ile Ile
204          290          295          300
207 Leu Ala Asn Gly Gly Pro Gln Ala Leu Val Gln Ile Met Arg Asn Tyr
208 305          310          315          320
211 Ser Tyr Glu Lys Leu Leu Trp Thr Thr Ser Arg Val Leu Lys Val Leu
212          325          330          335
215 Ser Val Cys Pro Ser Asn Lys Pro Ala Ile Val Glu Ala Gly Gly Met
216          340          345          350
219 Gln Ala Leu Gly Lys His Leu Thr Ser Asn Ser Pro Arg Leu Val Gln
220          355          360          365
223 Asn Cys Leu Trp Thr Leu Arg Asn Leu Ser Asp Val Ala Thr Lys Gln
224          370          375          380
227 Glu Gly Leu Glu Ser Val Leu Lys Ile Leu Val Asn Gln Leu Ser Val
228 385          390          395          400
231 Asp Asp Val Asn Val Leu Thr Cys Ala Thr Gly Thr Leu Ser Asn Leu
232          405          410          415
235 Thr Cys Asn Asn Ser Lys Asn Lys Thr Leu Val Thr Gln Asn Ser Gly
236          420          425          430
239 Val Glu Ala Leu Ile His Ala Ile Leu Arg Ala Gly Asp Lys Asp Asp
240          435          440          445
243 Ile Thr Glu Pro Ala Val Cys Ala Leu Arg His Leu Thr Ser Arg His
244          450          455          460
247 Pro Glu Ala Glu Met Ala Gln Asn Ser Val Arg Leu Asn Tyr Gly Ile
248 465          470          475          480
251 Pro Ala Ile Val Lys Leu Leu Asn Gln Pro Asn Gln Trp Pro Leu Val
252          485          490          495
255 Lys Ala Thr Ile Gly Leu Ile Arg Asn Leu Ala Leu Cys Pro Ala Asn
256          500          505          510
259 His Ala Pro Leu Gln Glu Ala Ala Val Ile Pro Arg Leu Val Gln Leu
260          515          520          525
263 Leu Val Lys Ala His Gln Asp Ala Gln Arg His Val Ala Ala Gly Thr
264          530          535          540
267 Gln Gln Pro Tyr Thr Asp Gly Val Arg Met Glu Glu Ile Val Glu Gly
268 545          550          555          560
271 Cys Thr Gly Ala Leu His Ile Leu Ala Arg Asp Pro Met Asn Arg Met
272          565          570          575

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275 Glu Ile Phe Arg Leu Asn Thr Ile Pro Leu Phe Val Gln Leu Leu Tyr
276      580      585      590
279 Ser Ser Val Glu Asn Ile Gln Arg Val Ala Ala Gly Val Leu Cys Glu
280      595      600      605
283 Leu Ala Gln Asp Lys Glu Ala Ala Asp Ala Ile Asp Ala Glu Gly Ala
284      610      615      620
287 Ser Ala Pro Leu Met Glu Leu Leu His Ser Arg Asn Glu Gly Thr Ala
288 625      630      635      640
291 Thr Tyr Ala Ala Ala Val Leu Phe Arg Ile Ser Glu Asp Lys Asn Pro
292      645      650      655
295 Asp Tyr Arg Lys Arg Val Ser Val Glu Leu Thr Asn Ser Leu Phe Lys
296      660      665      670
299 His Asp Pro Ala Ala Trp Glu Ala Ala Gln Ser Met Ile Pro Ile Asn
300      675      680      685
303 Glu Pro Tyr Gly Asp Asp Met Asp Ala Thr Tyr Arg Pro Met Tyr Ser
304      690      695      700
307 Ser Asp Val Pro Leu Asp Pro Leu Glu Met His Met Asp Met Asp Gly
308 705      710      715      720
311 Asp Tyr Pro Ile Asp Thr Tyr Ser Asp Gly Leu Arg Pro Pro Tyr Pro
312      725      730      735
315 Thr Ala Asp His Met Leu Ala
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321 <211> LENGTH: 467
323 <212> TYPE: PRT
325 <213> ORGANISM: Homo sapiens
329 <400> SEQUENCE: 3
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335 Ser Glu Asp Asn His Leu Ser Asn Thr Val Arg Ser Gln Asn Asp Asn
336      20      25      30
339 Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu Gly His Pro Glu
340      35      40      45
343 Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu
344      50      55      60
347 Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys
348 65      70      75      80
351 His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val
352      85      90      95
355 Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln
356      100      105      110
359 Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg
360      115      120      125
363 Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val
364      130      135      140
367 Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
368 145      150      155      160
371 Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Leu Phe Phe
372      165      170      175

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375 Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
376      180      185      190
379 Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val
380      195      200      205
383 Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
384      210      215      220
387 Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
388 225      230      235      240
391 Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr
392      245      250      255
395 Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val
396      260      265      270
399 Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr
400      275      280      285
403 Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu
404      290      295      300
407 Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr
408 305      310      315      320
411 Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe
412      325      330      335
415 Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg
416      340      345      350
419 Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile
420      355      360      365
423 Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
424      370      375      380
427 Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
428 385      390      395      400
431 Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
432      405      410      415
435 Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
436      420      425      430
439 Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
440      435      440      445
443 Thr Asp Tyr Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln
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447 Phe Tyr Ile
448 465
451 <210> SEQ ID NO: 4
453 <211> LENGTH: 551
455 <212> TYPE: PRT
457 <213> ORGANISM: Homo sapiens
461 <400> SEQUENCE: 4
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464 1      5      10      15
467 Arg Glu Asn Pro Glu Glu Asp Glu Asp Gln Arg Asn Pro Ala Lys Glu
468      20      25      30
471 Ser Leu Glu Thr Pro Ser Asn Gly Arg Ile Asp Ile Lys Gln Leu Ile
472      35      40      45

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VERIFICATION SUMMARY

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Output Set: N:\CRF4\03232006\J570909.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date